

## 2003 Annual Report Review

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<b>Permittee:</b>	<u>Co-op Mining Co.</u>	
<b>Mine Name:</b>	<u>Bear Canyon Mines, #1, 2, 3 and 4</u>	
<b>Permit Number:</b>	<u>C/015/0025</u>	
<b>Date Report Received:</b>	<u>April 19, 2004</u>	
<b>Assigned Reviewers:</b>	<b>Date Completed</b>	
Peter Hess, Engineer / Inspector <i>PHH</i>	June 17, 2004	
Jim Smith <i>DS hydrology</i>	June 14, 2004	
Joe Helfrich, Biology <i>JK</i>	May 24, 2004	

**Instructions:** The assigned staff will review their respective portions of the Annual report and provide a written determination (findings) on how the mine has or has not met the permit requirements for reporting. If the report is deficient or remedial action is required to obtain compliance, this should be noted and the inspector notified. Once all reviewers have completed the report, they should initial it and a copy will be filed in the Mine Internal File.

**Assignments:**

<b>Inspectors:</b>	Review each cover sheet, AVS Legal/Financial, Mine Sequence Maps.
<b>Hydrologists:</b>	Review Water Monitoring Data, Precipitation and Climatological Data, Non-Coal Waste
<b>Biologists:</b>	Review Vegetation/Revegetation Success Monitoring, Raptor Survey
<b>Engineers:</b>	Review Subsidence Monitoring Data, Annual Impoundment Certification, Annual Overburden, Spoils, Refuse, Floor, etc.

SECTIONS TO REVIEW	SUBMITTED		FINDINGS
	YES	NO	
Cover Sheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Information submitted on the cover sheets appear to be complete/adequate.
AVS; Legal/ Financial Update	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Submitted information is identical to that submitted to the Utah Dept. of Commerce on May 23, 2002.
Mine Sequence Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plates 3-4A, 4B, and 4C depict the development and coal extraction in the four mines associated with the Tank seam (#2 and #4 Mines), Blind Canyon seam (#1 and #3 Mines), and the Hiawatha seam (#1 Mine). There has been no secondary extraction in the #3 and #4 Mines. All maps are P.E. certified by Mr. Charles Reynolds, the permittees general manager.
Water Monitoring Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Submitted quarterly.
Precipitation & Climatological Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Precipitation data only.
Non-Coal Waste report	<input type="checkbox"/>	<input checked="" type="checkbox"/>	All non-coal waste is disposed of off-site, in the Emery County landfill. Equipment was abandoned in 1st North of the #1 Mine because of a roof fall on January 14, 2003.

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SECTIONS TO REVIEW	SUBMITTED		FINDINGS
	YES	NO	
Subsidence Monitoring Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The permittee submitted subsidence monitoring information for 46 locations within the Bear Canyon permit area. Data collection was achieved via aerial photogrammetry conducted by Olympus Aerial Surveys, Inc., Analytical data from the flyover was received by the permittee on October 7, 2003. The permittee has submitted that data as part of Appendix B; the P.E. certified subsidence map, Plate 3-3 is included within Appendix D of the annual report. There is no analysis of the submitted data by the permittee included with this information. Monitoring points 500-519 report data for the escarpments located north of #1 and #2 Mines within Federal lease U-024316. Only points 502, and 515 thru 518 are over Mine workings. Subsidence varies from less than one foot to a maximum of approximately 3.4 feet at point 500, which is about 1500 feet from the Mine workings. Upheave varies from less than one foot to a maximum of 7.5 feet at point #513. In the Wild Horse Ridge area (#3 and #4 Mines) monitoring points 520 thru 545 report data. To date, there has been no secondary extraction in the #3 Mine. Point 544 reported a settling of -9.564 feet under the 2002 elevation. Point 540 reported a heave of 8.83 feet. Both locations are in escarpment areas. Therefore, the high readings may be due to photogrammetry technical error, or a natural failure of the escarpment. The data upsets are not the result of underground mining activity. Other data appears normal, with +/- elevations varying from less than one foot to several feet.
Annual Impoundment Certification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P.E. certifications for ponds A, B, C, and D are included. All ponds are reported as having adequate sediment storage capacity remaining, with no signs of instability or other hazardous conditions being reported. Pond D did not have its construction completed until July 21, 2003. Two P.E. certifications were submitted for this pond, one being performed upon the completion of construction and the second being completed as the annual impoundment certification. Mr. Mark Reynolds is the permittee's qualified person performing the general inspections of the ponds. Mr. Charles Reynolds performs all professional engineering certifications for the permittee.
Annual Overburden, Spoil, Refuse, Floor, etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There are no refuse disposal piles within the Bear Canyon Mines permit area. The permittee has Division approval to dispose of coal mine development and coal processing waste in the Hiawatha Complex permit area, C/007/011.
Vegetation Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Required
Revegetation Success Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Required

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SECTIONS TO REVIEW	SUBMITTED		FINDINGS
	YES	NO	
Raptor Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Required, 2001 and 2002 surveys are on file with the division.
Other Information	<input type="checkbox"/>	<input type="checkbox"/>	

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